



MODEL UC 60e

INSTALLATION & OPERATION

Rev 1.00A



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1. Specifications

1.1. Model UC60E		METRIC EQUIVALENT
WATER CONSUMPTION		
PER RACK	.7 GAL.	(2.6L)
PER HOUR	35/21/14/8 GAL.	(130/78/52/31 L)
OPERATING CYCLE		
WASH TIME-SEC	40/100/160/280	40/100/160/280
RINSE TIME-SEC	15	15
DWELL	5	5
TOTAL CYCLE	1/2/3/5MIN.	1/2/3/5MIN.
OPERATING CAPACITY		
RACKS PER HOUR	50/30/20/12	50/30/20/12
WASH TANK CAPACITY	6.87 GAL.	(26 L)
WATER REQUIREMENTS		
	140°F	(60°C)
WATER INLET	3/4"	-
DRAIN CONNECTION	1"	-
RINSE PRESSURE SET	25 PSI	1.76 kg/cm ²
CYCLE TEMPERATURES		
WASH-°F	155°F – 160°F	(68°C/71°C)
RINSE-°F	180°F – 195°F	(82°C/90°C)
FRAME DIMENSIONS		
DEPTH	24"	(61 cm)
WIDTH	23-5/8	(60 cm)
HEIGHT	33- 7/16"	(85 cm)
MAX CLEARANCE FOR DISHES	13-3/4"	(35 cm)
ELECTRICAL RATING*		
	220/240 VOLTS	
	1 PH—60 Hz	
	30 AMPS	

2. Getting Started

2.1. *Receiving and Installation*

The dishwasher is shipped from the factory in a corrugated box on a wooden pallet. The installation guidelines give a systematic procedure for setting up the machine.

Start by removing the packaging material. After removing the packing, ensure that the appliance has not been damaged in transport. If it has, inform the retailer. Set the machine in place, and level from side-to-side and front-to-back.

2.1.1. Electrical¹

Single-phase 230 volt, 60 Hz dedicated circuit should be used to supply electrical energy to the UC60 dishwasher (see specification sheet page 2). This system requires two power wires. An additional third wire must be provided for ground. CMA and local codes require the UC6060 to be hardwired using a proper gauge copper wire. The power connection must be located such that there is sufficient length of the flexible conduit remaining to permit the machine to be moved for cleaning.

2.1.2. Plumbing²

Each machine is provided with a rubber hose with a ¾" threaded attachment for water filling. A 140°F water line should be plumbed to this point. The water line used must be of sufficient length and flexibility to permit the machine to be moved for cleaning.

The supply water to the UC60 must be a minimum of 140°F at 30 PSI (Pounds per Square Inch). If it is less than 30 PSI dynamic pressure a pressure pump must be installed to guarantee optimal machine operation. If, however, the water supply pressure is greater than 60 PSI, a pressure reducer must be installed.

Connect the drain hose, supplied with the appliance to the drain union in such a way that water flows freely (insuring a minimum slope). A drain pump is provided to empty the water at a level below the machine drain. The drain hose should be connected to a trap to prevent odor back-up from the screen.

2.1.3. Rinse aid dispenser.

The machine is equipped with a rinse aid dispenser, which automatically draws the product. To carry out priming, start the machine and do a few complete wash cycles or press adjustment screw repeatedly. Operating the fine-adjustment screw on the dispenser can regulate the amount dispensed from 0 to 4cc, equivalent to 0-11 inches (0-30cm) drawn into chemical line. Reduce the amount by turning the screw clockwise, increase by turning it counterclockwise.

^{1,2} All electrical and plumbing connections must be made by a qualified person who will comply with all available Federal, State, and Local Health, Electrical, Plumbing and Safety codes

2.1.4. Detergent dispenser.

The machine is equipped with a detergent dispenser, which automatically draws the product.

Detergent has been pre-wired prior to the shipment. Refer to wiring diagram on the page 8 for detergent dispenser connection.

Chemical output line is connected to the injector on the back of the machine. Insert chemical input line with the filter in detergent container. Prime detergent dispenser and proceed to dispense. Detergent dispenser capacity can be adjusted using a screwdriver. Every 13/16 inches (2 cm) of product drawn into chemical line corresponds to 0.25 cc.

2.1.5. Temperature Adjustments.

Booster heater temperature adjustment always has priority over that of the wash tank, and both cannot be switched on at the same time. During wash pump operation the wash tank heating element doesn't work.

The temperature adjustment outputs are kept off in the following cases:

- Temperatures measured are below 41°F (5°C).
- There is a fault.
- There is no water.

The recommended temperatures are 160°F (71 °C) for the wash cycle (tank) and 180°F (82,2°C) for the rinse cycle.

2.1.6. Drain Pump.

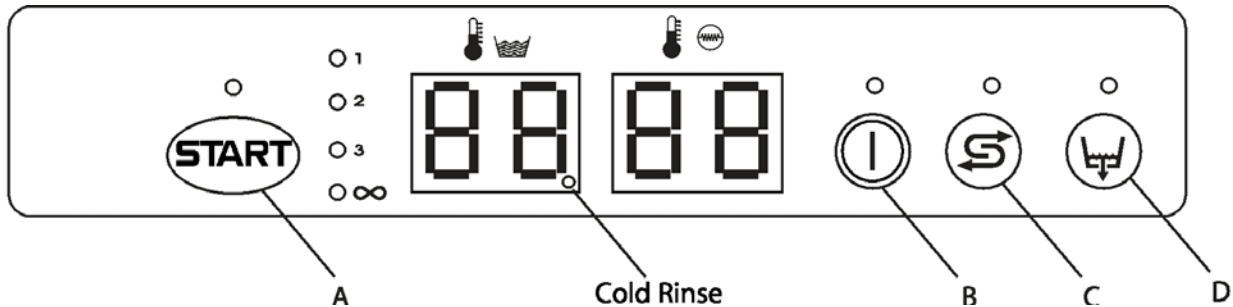
The machine is equipped with a drain pump. Pay particular attention the position of the drain hose, which should not be higher than 31 inches (0.8 cm). To empty the wash tank turn off the machine by pressing the main switch, pull out the overflow tube inside the water tank and leave the door open. Then keep manual drain button pressed until water tank is completely empty. During the wash/Rinse cycle, excess water will automatically be drained.

3. Operation

3.1. Control Panel And Relative Symbols.

The purpose of these specifications is to describe card operation.

To simplify the description of the various functions, the layout of the control panel and the various functions assumed by the keys according to the function mode is given below.



Functions of keys during normal operation:

- A: Cycle Start - Cycle Stop - Cycle Selection 1-2-3 - Self-cleaning;
- B: On/Off (Stand-By) - Cycle Stop - Alarm Reset;
- C: Regeneration (optional) - Cold rinse selection (when provided for);
- D: Drain (when provided for).

3.2. Startup Procedures

- Insert the overflow tube in the special seat inside the wash tank.
- Check that the suction filter inside the wash tank is correctly fitted in its seat.

The filter must be cleaned after every 20 wash cycles and whenever necessary.

DO NOT use the appliance without the filters

- Close the dishwasher door.
- Insert the rinse aid dispenser line in the liquid container and check for the quantity of the additive.
- Turn on main water valve.
- Turn on the appliance by pressing push button (B) on the control panel.

The green LED lights up. The machine will automatically fill the water tank to the proper level tank,

and then the heating phase begins. Indicator comes on when the water temperature is reached.

- Insert the rack filled with dishes to wash. The plates must be correctly placed in the rack.
- Select the wash cycle required by pressing button (A) keeping it pressed for more than 5 seconds and release when the LED of the required cycle lights up. The green LED of the selected cycle lights up (1, 2, 3).
- Start the cycle by pressing the key (A) for not more than 1sec. Operation is signaled by the indicator of the selected cycle flashing. At the end of the cycle the indicator stops flashing

and the message (END) appears on the display.

- The appliance is now ready for a new wash.

Note: the machine does not accept other cycles until the door is opened or the key (A) is pressed twice.

- At the end of the day, clean the machine (see "Preventive Maintenance").

3.3. Preventive Maintenance.

3.3.1. Regular Maintenance.

In order to ensure perfect performance, the appliance must be completely cleaned at least once a day in the following way:

- Turn off the dishwasher by pressing the key (B) and put the machine on stand-by.
- Turn off main water valve.
- Remove the overflow tube, press push button (D), and the pump operates for the time set in programming. The drain pump is activated in the following way:
 - activation of a 5sec delay at start;
 - activation of the drain pump for the time set in programming, up to the level indicated by the pressure switch.
- Remove the filters and clean it with a brush under running water.
- Remove the spray arms loosening the fixing screws, and thoroughly clean the nozzles and cleaning and rinsing arms under running water.
- Reassemble all parts and refit the spray arms in their seats, fixing them with the relative screws.
- Clean the tank thoroughly.

Do not use bleach or chlorine based detergents.

At the end of the day, it is advisable to leave the dishwasher door open.

Note: It is advisable to replace the tank water by refilling the tank at least every 20 wash cycles, or twice a day. Do not use metal brushes or corrosive products, which can damage the machine.

3.3.2. Special Maintenance.

Once or twice a year have a qualified technician inspect the machine:

- Clean the solenoid valve filter
- Remove scale from the heating elements
- Check the tightness of the seals
- Check condition and/or wear of the components
- Check operation of the dispenser

3.4. Troubleshooting.

PROBLEM	LIKELY CAUSE	SOLUTION
The machine does not start	Main Switch turned off	Turn switch on
The machine does not load water	Water valve is closed	Open main water valve
	The spray arm nozzles or the solenoid filter is clogged and/or caked with lime deposits	Clean the rinsing arm nozzles, the pipes and the filter.
	Faulty pressure switch	Replace the pressure switch
Unsatisfactory washing results	The washing nozzles are clogged or the washing arms do not rotate	Unscrew and clean the nozzles and the rotation shaft, refit them correctly in their seats
	Detergent concentration too low	Use non-foaming detergent or use less detergent
	Fats or starches are not removed	Detergent concentration too low
	The filter is too dirty	Remove the filter, clean it with a brush under running water and refit in its seat
	Check the tank temperature (it must be about 160°F)	Adjust the thermostat or check correct heating element operation
	Length of washing cycle inadequate for type of grime build-up	Choose a longer cycle if possible, otherwise repeat wash cycle
	Wash water too dirty	Empty water from the tank, clean filters; refill the tank and correctly refit the filters
Glasses or dishes are not completely dried	Insufficient rinse aid	Increase the amount of rinse aid by turning the screw on the dispenser
	The rack is unsuitable for the glasses and dishes	Use a suitable rack enabling the dishes to be tilted so water can run off
	The dishes may have been inside the tank for too long	As soon as the wash cycle is finished, pull the rack out immediately, allowing the air to dry the glasses and dishes more quickly
	Rinse water temperature is less than 180°F (82°C)	Check the temperature of the booster thermostat
	Machine is fed with cold water	Use longer cycle
Streaks and spots on glasses and dishes	Too much rinse aid	Decrease the amount of rinse aid by turning the fine-adjustment screw on the dispenser
	The water is too hard	Check the water hardness Water should not be harder than 5-10 °f
	Salt present in dishwasher tank	Thoroughly clean and rinse the appliance, and avoid spilling salt when filling the container
The machine suddenly stops during the cycle	The machine is connected to an overloaded circuit	Connect the machine separately (call the Technical Assistance service)
	A safety device has been activated	Check safety devices (call the Technical Assistance service)
During wash cycle the machine stops and draws water	Water from the previous day has not been replaced	Empty the tank and refill it
	The tank water temperature is too high	Have the Technical Assistance service check the thermostat and the pressure switch
	Faulty pressure switch	
	The overflow tube is incorrectly positioned	Remove the overflow tube and correctly reposition it
The booster pump can't prime	Little pressure on feeding	Remove the boiler pipe and drain the pump

4. Electrical Diagram

WIRE DIAGRAM FOR MODEL: UC-60

